DCM GROUP

OCV FLUID SOLUTIONS LLC

OCV Dorot

matholding group

Fire Protection

Innovative & Reliable Solutions Together!

Fire Protection Control Valves





Edition 03/2019

Growing Forward. Together.

OCV Fluid Solutions combines the engineering expertise of Dorot and OCV Control Valves resulting in a one-of-a-kind partner with a combined 140 plus years of experience in developing sustainable fluid control solutions for Fire Protection. OCV Fluid Solutions portfolio includes the same reliable and excellent products you have become familiar with, in addition to new and innovative technologies. You'll have access to a variety of special materials and simultaneously receiving the highest quality product on the market, worldwide.
Synergies created worldwide between Dorot and OCV Control Valves enables OCV Fluid Solution to respond efficiently to fluid & water industry provocations and provide tailor-made solutions for various applications, ranging from basic systems to most hazardous applications in Fire Protection.

About Dorot Control Valves - Fire Protection Division:

Since first receiving our UL listing over 15 years ago, Dorot's Fire Protection Valves division has been providing time-proven, reliable and comprehensive solutions for various applications, ranging from basic systems to the most demanding Fire Protection applications. Additional approvals such as CCCF, ABS, Lloyd's, DNV, LPCB and more are available with Dorot's systems.
Dorot's Fire Protection systems are utilized in typical applications including tunnels, storage, hangars & airport terminals, high–rise buildings, and many more. Dorot's Fire Protection systems are also being applied in hazardous offshore and onshore locations, refineries, platforms, FPSO's, power generation plants and other extreme climates and corrosive environments.
Dorot offers a variety of water, foam and seawater Fire Protection valves INMETRO / ABNT compliant including Deluge, Dry-Pipe and Pre-Action or Foam-Water type fire protection sprinkler systems, Peripheral Valves, Hydrant and Monitor Valves such as: remote and local Hydraulically and Electrically actuated monitor valves, standard and Pressure Reducing Hydrant valve and more.
Dorot's Fire Protection Valves are made from a variety of materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex, Bronze / Marine Bronze, Cast Steel and Ductile Iron. Standard material valves such as Ductile Iron (ASTM A-536) and Cast Steel (WCB A-216) are coated with zinc-enriched, high-build fusion-bonded epoxy (FBE) and a UV protective topcoat, conforming to EN12944 C4 & C5, high corrosion protection grades. Dorot also supplies naval quality - very high corrosion protection grade, conforming to EN12944 C5M as well as other coatings (such as NORSOK or ANSI/NACE) and materials for extreme environments upon request.

About OCV Control Valves - Fire Protection Division:

For nearly 70 years, OCV Control Valves has manufactured hydraulically operated, diaphragm actuated globe and angle valves, in sizes 1/2"-12" for fire protection applications such as deluge spray systems, foam-water systems, offshore platforms, transportation tunnels, manufacturing plants, power plants and many more. Developed with flexibility in mind, the OCV control valve can be readily adapted to perform numerous functions, including but not limited to pneumatic, electric and hydraulic deluge, pressure control, pressure relief, thermal expansion relief, automatic level control, electronic valves, and more. For more challenging applications, we can design a custom solution and offer specialized materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex Stainless Steel, and seawater epoxy coating to protect the valves in even the most corrosive environment. OCV Control Valves has always focused on creating the highest quality product on the market, and maintaining unparalleled customer service, which is why each valve comes with an industry leading five-year warranty. Our quality system is registered to ISO 9001, and many of our valves are UL Listed, FM Approved, certified to 2014/68/EU PED and ABS Type Approved.

Products within the OCV Fluid Solutions portfolio have a variety of registrations and model certifications ranging from:

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Series 100 Basic Hydraulic Valves 6

Deluge Valve Range 8

DE\HM Hydraulically Actuated Deluge Valve 8

DE\HRV Hydraulically Actuated, Anti-Columning Deluge Valve 8

DE\EL Electrically Actuated Remote Reset Deluge Valve 2/2 solenoid 9

DE\RC Electrically Actuated Deluge Valve 3/2 solenoid 10

DE\RCL Electrically Actuated Manual Reset Deluge Valve 10

DE\RCE Electrically Actuated Manual Reset & Electric Remote Reset Deluge Valve 11

DE\EL(CN) Electrically Actuated Deluge Valve (Chinese standard) 11

DE\EL\HRV Electro-Hydraulically Actuated, Anti-Columning Deluge Valve 12

DE\PORV Pneumatically Actuated Deluge Valve 12

DE\EL\PORV Electro-Pneumatically Actuated Deluge Valve 13

DE\EL\PORV\DN Double-Interlock Pre-action, Electric-Pneumatic Release System 13

Pressure Reducing & Pressure Relief Valves 14

PR\UL Pressure Reducing Valve 14

PS\UL Pressure Relief Valve 14

Model 108FC (Globe)/108FCA (Angle) METRIC Fire Pump Relief Valve 15

Model 108FPS METRIC Pump Suction Control Valve 15

Model 108-2HP(Globe)/108-2HPA(Angle) METRIC Fire Pump Relief Valve 16

Model 1330Fc Pressure Relief Valve / N.c. Thermal Expansion Relief Valve 1330Fc 16

Local and Remote Actuated Monitor Valves 17

MO\M Manually Actuated Monitor Valve 17

MO\RC Remote Hydraulic/Pneumatic Actuated Monitor Valve 17

MO\EL Electrically Actuated Monitor Valve 17

Water Level Control Valves 18

FL Modulating Float Control Valve 18

FLEL Electric Float Control Valve 18

FLDI Differential Float Pilot Control Valve 19

AL Altitude Pilot Control Valve 19

Deluge Pressure Reducing Valve Range 20

DE\HRV\PR Hydraulically actuated anti-columning Deluge Pressure Reducing Valve 20

DE\EL\HRV\PR Electrically or Hydraulically actuated Deluge Pressure Reducing Valve 20

DE\EL\PR Electrically actuated Deluge Pressure Reducing Valve 2/2 solenoid 21

DE\RC\PR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid 21

DE\RCL\PR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid 22

DE\PORV\PR Pneumatically actuated Deluge Pressure Reducing Valve 22

DE\EL\PORV\PR Electrically or Pneumatically actuated Deluge Pressure Reducing Valve 23

Hydrant Valve Range 23

HY Hydraulic Hydrant Valve 23

HY\PR1 Hydraulic Pressure-Reducing Hydrant Valve 23

HY\PR2 Hydraulic Pressure-Reducing Hydrant Valve 23

Zero Pressure Foam Valve Range 24

ZP\EL Foam Concentrate Electrically actuated Double chamber Control Valve 24

ZP\HM Slaved Hydraulic Pilot actuated Foam Concentrate Double chamber Control Valve 24

ZP\H Slaved Hydraulic actuated over the seat Foam Concentrate Double chamber Control Valve 25

Series 300 Basic Hydraulic Valves

General Description

Dorot UL listed basic untrimmed valve models: 30U, 30CU, 30AU

Dorot Series 300 are automatic, hydraulically actuated, diaphragm operated, globe and angle pattern control valves.
The valves are designed for use in fire protection applications, including deluge, pre-action, pressure control, water, foam and seawater fire protection systems.
The valves consist of three major components: the body, the cover, and the internal diaphragm assembly.



Features

- UL-listed with a wide range of control trims
- Fast opening and soft closure operation
- Drip-tight hermetic shut off to ANSI FCI 70-2
- Simple and reliable design
- Easy installation and maintenance
- Double or single chamber
- High-grade construction materials
- Reliable pressure control from near zero flow
- Low pressure losses at high flow rates

Optional Features

- Local or remote reset
- Manual, Electric, Hydraulic, Pneumatic and Pneu-electric UL-listed control trims
- Explosion-proof, SIL redundant solenoids & trim accesories
- Sea water service

UL listings

The valves are UL listed as "Fire Pump Relief Valves" (QXZQ.EX15231), "Special Systems Water Control Valves" - Deluge (VLFT.EX15233) and "Special System Water Control Valves, Pressure-reducing and Pressure-control" (VLMT.EX15232) types. Consult the UL listing guide or contact Dorot for a complete list of approved applications and valve sizes (2"/ DN50 - 12"/ DN300)

Specifications

Sizes:
Straight Flow 40-800 mm $1^1/_2$" - 32"
Angle 40-200 mm $1^1/_2$" - 8"
End Details:
Flanged:
ISO PN10, PN16 and PN25
ANSI B16.42 class 150 & 300
AS Tables D & E, JIS
Additional options available upon request
Threaded:
BSP or NPT
Grooved
Pressure rating:
250 psi for class # 150
375 psi for class # 300
Temperature range: Water up to 80°C / 180°F max

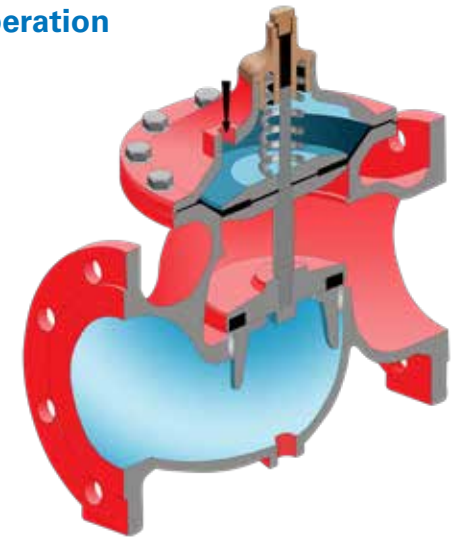
Materials

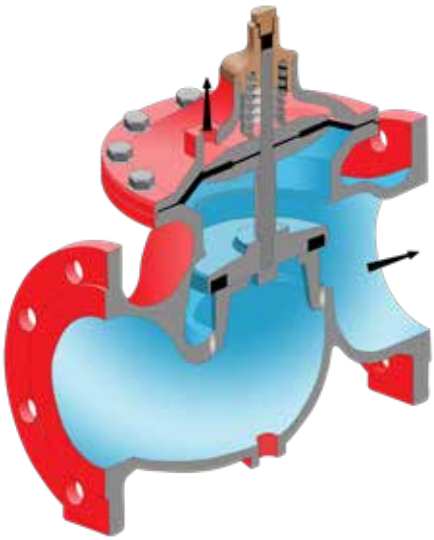
Body & Cover:
Ductile Iron ASTM A-536
Cast Steel ASTM A216 WCB or low temp. A352
Stainless Steel CF8M, CF8
Naval Bronze ASTM B61
NAB Ni-Al-Bronze ASTM B148 C-95800
Coating: UV Protected Fusion Bonded Epoxy
Optional: Polyester, Halar & other coatings conforming to ISO-12944 C4, C5 & C5M
Main valve trim: Stainless Steel & Bronze
Elastomers: Rubber, NR, NBR, EPDM, BUNA-N
Control trim & Accesories:
Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request

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Principle of Operation

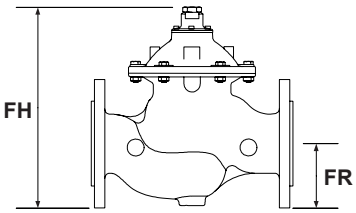


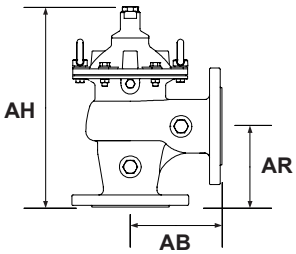


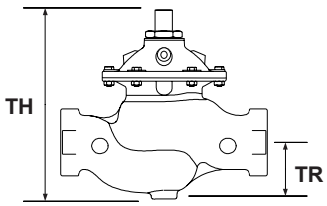
Dimensions and Weights

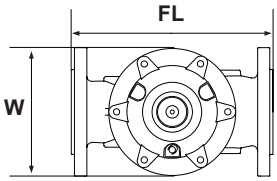
Valve Size		50 (2")		65 (2 1/2")		80 (3")		100 (4")		150 (6")		200 (8")		250 (10")		300 (12")		350 (14")		400 (16")	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
DIMENSIONS	FL	230	9 1/16	292	11 1/2	310	12 3/16	350	13 3/4	480	18 7/8	600	23 1/16	730	28 3/4	850	33 7/16	980	38 9/16	1100	43 5/16
	FH	185	7 5/16	185	7 5/16	230	9 1/16	240	8 7/16	330	13	390	15 3/8	520	20 1/2	635	25	635	25	855	33 5/8
	W *	170	7	170	7	200	7	235	9	330	13	415	16	525	21	610	24	610	24	850	33
	FR	82.5	3 1/4	92.5	3 5/8	100	3 15/16	110	4 5/16	142.5	5 5/8	172.5	6 3/4	205	8 1/16	230	9	272	10 11/16	290	11 7/16
	TL	215	8 7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TH	209	8 1/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TR	62	2 7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AL	208	8 3/16	N/A	N/A	250	9 13/16	295	11 1/16	405	16	505	19 7/8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AH	240	9 7/16	N/A	N/A	415	16 5/16	445	17 1/2	570	22 7/16	635	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AB	125	4 15/16	N/A	N/A	150	5 7/8	173	6 13/16	240	9 7/16	300	11 13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AR	107	4 3/16	N/A	N/A	138	5 7/16	147	5 13/16	180	7 1/16	N/A	14 3/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Vol. Control Chamber lit./gal.	0.1 / 0.03		0.1 / 0.03		0.3 / 0.08		0.7 / 0.18		1.5 / 0.4		4.3 / 1.1		9.7 / 2.6		18.6 / 4.9		18.6 / 4.9		50 / 13.2	
	Weight kg/lbs	12 / 26		13 / 29		22 / 48		37 / 82		80 / 176		157 / 346		245 / 540		405 / 892		510 / 1123		822 / 1810	

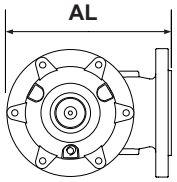
* Valve Width

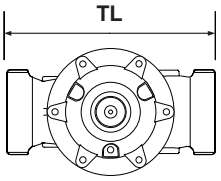












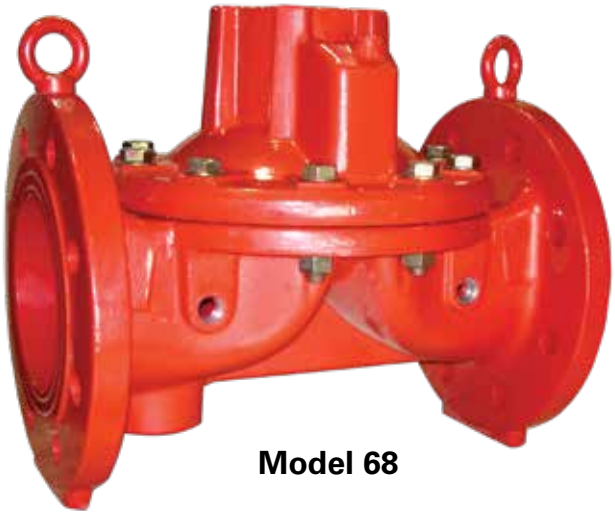
Series 100 Basic Hydraulic Valves

General Description

Dorot UL listed basic untrimmed valve models: 68, 44*, 77*

Dorot Series 100 valves are automatic, hydraulically actuated, direct diaphragm sealing weir / globe type valves with proven and reliable design.
The valves are designed for use in fire protection applications including deluge, pre-action, pressure control, water, foam and seawater fire protection systems.
The valves consist of three major components: body, cover and diaphragm.
The only moving part is the diaphragm.

* Pictures of models 44 & 77 are not shown in this page



Model 68

Features

- UL-listed with a wide range of control trims
- Fast opening and soft closure operation
- Drip-tight hermetic shut off to ANSI FCI 70-2
- Simple and reliable design
- Easy installation and maintenance
- High-grade construction materials
- Reliable pressure control from near zero flow
- Exceptionally low pressure losses

Optional Features

- Latched opening or remote reset
- Manual, Electric, Hydraulic, Pneumatic and Pneu-electric UL-listed control trims
- Explosion-proof, SIL redundant solenoids & trim accesories
- Sea water service

UL listings

The valves are UL listed as "Fire Pump Relief Valves" (QXZQ.EX15231), "Special Systems Water Control Valves" - Deluge (VLFT.EX15233) and "Special System Water Control Valves, Pressure-reducing and Pressure-control" (VLMT.EX15232) types. Consult the UL listing guide or contact Dorot for a complete list of approved applications and valve sizes (2"/ DN50 - 10"/ DN250)

Specifications

Sizes
Straight Flow 20-600 mm / $^{3}/_{4}$" - 24"
Angle 40-150 mm / $1^{1}/_{2}$" - 6"
End Details:
Flanged:
ISO PN10, PN16 and PN25
ANSI B16.42 class 150, 250 & 300
AS Tables D & E, JIS
Additional options available upon request
Threaded:
BSP or NPT
Grooved
Pressure rating:
250 psi for class # 150
375 psi for class # 300
Temperature range: Water up to 80°C / 180°F max

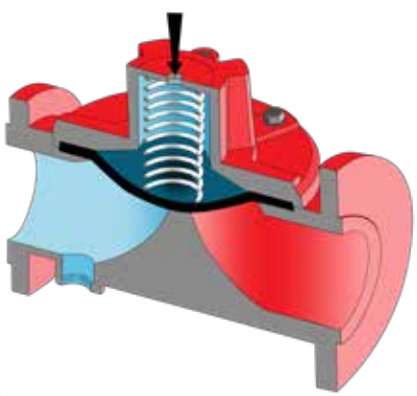
Materials

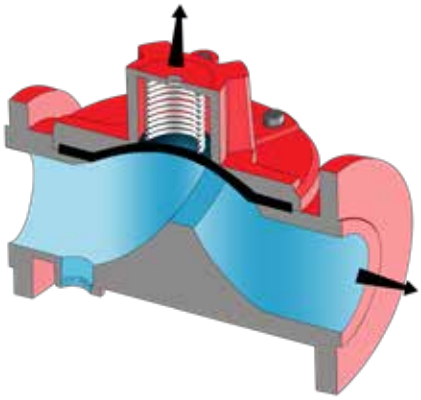
Body & Cover:
Ductile Iron ASTM A-536
Cast Steel ASTM A216 WCB or low temp. A352
Stainless Steel CF8M, CF8
Naval Bronze ASTM B61
NAB Ni-Al-Bronze ASTM B148 C-95800
Coating: UV Protected Fusion Bonded Epoxy
Optional: Polyester, Halar & other coatings conforming to ISO-12944 C4, C5 & C5M
Main valve trim: Stainless Steel & Bronze
Elastomers: Rubber, NR, NBR, EPDM, BUNA-N
Control trim & Accesories:
Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request

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Principle of Operation

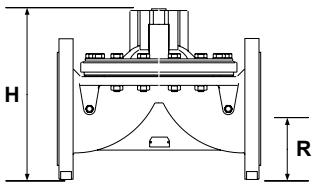


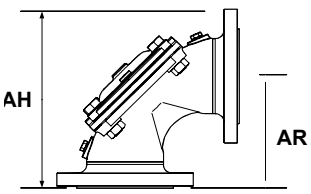


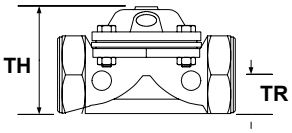
Dimensions and Weights

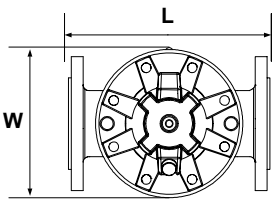
Valve Size			50 (2")		80 (3")		100 (4")		150 (6")		200 (8")		250 (10")		300 (12")		350 (14")		400 (16")		450 (18")	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
DIMENSIONS	77	L	200	$7^{13}/_{16}$	285	$11^{3}/_{16}$	305	12	390	$15^{5}/_{16}$	460	$18^{1}/_{8}$	535	21	580	$22^{13}/_{16}$	580	$22^{13}/_{16}$	980	$38^{9}/_{16}$	1100	$43^{5}/_{16}$
		H	166	$6^{1}/_{2}$	200	$7^{13}/_{16}$	230	9	314	$12^{5}/_{16}$	400	$15^{11}/_{16}$	445	$17^{1}/_{2}$	495	$19^{3}/_{8}$	495	$19^{3}/_{8}$	990	39	1250	$49^{3}/_{16}$
		R	85	$3^{5}/_{16}$	105	$4^{1}/_{8}$	110	$4^{5}/_{16}$	145	$5^{11}/_{16}$	170	$6^{5}/_{8}$	205	8	240	$9^{3}/_{8}$	270	$10^{5}/_{8}$	610	24	850	33
		W *	166	$6^{1}/_{2}$	200	$7^{13}/_{16}$	230	9	300	$11^{13}/_{16}$	365	$14^{3}/_{8}$	440	$17^{5}/_{16}$	490	$19^{5}/_{16}$	540	$21^{5}/_{16}$	520	$20^{1}/_{2}$	580	$22^{13}/_{16}$
		Approx. Weight kg/lbs	7.7 / 17		18.2 / 40.1		24 / 53		49 / 108		86 / 190		125 / 276		167 / 368		172 / 379		N/A		N/A	
	68	L	228	$8^{7}/_{8}$	310	$12^{3}/_{16}$	356	14	436	$17^{1}/_{8}$	530	$20^{13}/_{16}$	636	25	N/A	N/A	N/A	N/A	715	$28^{1}/_{8}$	715	$28^{1}/_{8}$
		H	169	$6^{5}/_{8}$	237	$9^{5}/_{16}$	263	$10^{5}/_{16}$	378	$14^{13}/_{16}$	481	$18^{7}/_{8}$	546	$21^{1}/_{2}$	N/A	N/A	N/A	N/A	830	$32^{5}/_{8}$	830	$32^{5}/_{8}$
		R	85	$3^{5}/_{16}$	105	$4^{1}/_{8}$	120	$4^{11}/_{16}$	150	$5^{7}/_{8}$	180	7	215	$8^{3}/_{8}$	N/A	N/A	N/A	N/A	310	$12^{3}/_{16}$	340	$13^{5}/_{16}$
		W *	175	$6^{7}/_{8}$	200	$7^{13}/_{16}$	260	$10^{3}/_{16}$	320	$12^{5}/_{8}$	400	$15^{11}/_{16}$	495	$19^{3}/_{8}$	N/A	N/A	N/A	N/A	830	$32^{5}/_{8}$	830	$32^{5}/_{8}$
		Approx. Weight kg/lbs	10 / 22		30 / 66.1		38 / 83.8		75 / 165.3		123 / 271		190 / 419		N/A		N/A		433 / 955		460 / 1014	
	44	TL	188	$7^{3}/_{8}$	316	$12^{3}/_{8}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		TH	115	$4^{1}/_{2}$	135	$5^{5}/_{16}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		TR	42	$1^{5}/_{8}$	53	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		W	112	$4^{3}/_{8}$	200	$7^{13}/_{16}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Approx. Weight kg/lbs	3.2 / 7		11 / 24		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	82	AL	N/A	N/A	174	$6^{13}/_{16}$	180	7	230	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		AH	N/A	N/A	278	11	300	$11^{13}/_{16}$	380	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		AR	N/A	N/A	47	$1^{13}/_{16}$	60	$2^{5}/_{16}$	82	$3^{3}/_{16}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		W	N/A	N/A	200	$7^{13}/_{16}$	230	9	300	$11^{13}/_{16}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Approx. Weight kg/lbs	N/A		18 / 39.6		21 / 46.2		45 / 99.2		N/A		N/A		N/A		N/A		N/A		N/A	

* Valve Width

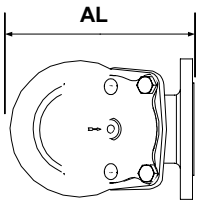




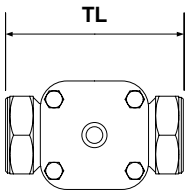




77/68



82



44

DE\HM
Hydraulically Actuated Deluge Valve

Hydraulic pilot actuated control valve
The valve maintains a closed position and instantly opens upon a hydraulic pressure drop in a pressurized sprinkler sensor line, limited to 7m above the valve or by manual emergency actuation.

Features:
- UL listed
- Simple structure
- Optional manual reset (model DE\HM-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\HM


68-DE\HM

DE\HRV
Hydraulically Actuated, Anti-Columning Deluge Valve

Hydraulic pilot actuated control valve
The valve maintains a closed position and instantly opens upon a hydraulic pressure drop in a pressurized sprinkler system or by manual emergency actuation.

Features:
- UL listed
- Simple structure
- Optional manual reset (model DE\HRV-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\HRV


68-DE\HRV

DE\EL

Electrically Actuated Remote Reset Deluge Valve 2/2 solenoid

Electric solenoid actuated control valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve.

Features:
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\EL


68-DE\EL

Deluge Valve Range

DE\RC
Electrically Actuated Deluge Valve 3/2 Solenoid

Electrically actuated, remote reset deluge valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation.

Features:
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\RC-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\RC


68-DE\RC

DE\RCL
Electrically Actuated Manual Reset Deluge Valve

Electrically actuated, manual reset deluge valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation. The valve will close only after a manual reset is activated.

Features:
- UL listed
- Simple structure
- Manual reset
- Optional pressure reducing function

Applicable for:
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\RCL


68-DE\RCL

Edition 03/2019

DE\RCE

Electrically Actuated, Latching Type, Manual Reset & Electric Remote Reset Deluge Valve

Electrically actuated, latching type, manual reset & electric remote reset deluge valve
The valve maintains a closed position and opens when the 'Open' solenoid valve is energized or by manual emergency actuation. The valve will be remotely closed by energizing the 'Close' solenoid valve or by manually pressing the RCE relay reset knob.

Features:
- UL listed
- Simple structure
- Manual reset and remote reset
- Optional pressure reducing function

Applicable for:
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\RCE


68-DE\RCE

DE\EL(CN)

Electrically Actuated Deluge Valve (Chinese standard)

Electrically actuated, manual reset deluge valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation. The valve will close only after a manual reset is activated.

Features:
- Chinese standard certified
- Simple structure
- Manual reset
- Optional pressure reducing function

Applicable for:
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam


68-DE\EL (CN)


68-DE\EL (CN)

DE\EL\HRV

Electro-Hydraulically Actuated, Anti-Columning Deluge Valve

Electrically and/or Hydraulically actuated control valve
The valve maintains a closed position and instantly opens upon an hydraulic pressure drop in a pressurized sprinkler system or by energizing a solenoid valve or by manual emergency actuation.

Features:
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\HRV-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\EL\ HRV


68-DE\EL\HRV

DE\PORV

Pneumatically Actuated Deluge Valve

Pneumatic actuated deluge valve.
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system or by manual emergency actuation

Features:
- UL listed
- Simple structure
- Optional manual reset (model DE\PORV-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Dry pipe
- Single-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\PORV


68-DE\PORV

DE\EL\PORV

Electro-Pneumatically Actuated Deluge Valve

Electrically and/or Pneumatically actuated control valve
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system or by energizing a solenoid valve or manual emergency actuation.

Features:
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\PORV-MR)
- Optional pressure reducing function

Applicable for:
- Deluge
- Dry pipe
- Non-Interlock, Single-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\EL\PORV


68-DE\EL\PORV

DE\EL\PORV\DN

Double-Interlock Pre-action, Electric-Pneumatic Release System

Pneumatically and Electrically actuated control valve
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system and by simultaneously energizing a solenoid valve, or manual emergency activation

Features:
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\PORV\DN-MR)
- Optional pressure reducing function

Applicable for:
- Double-Interlock Pre-Action
- Water, Sea water and Foam


30U-DE\EL\PORV\DN


68-DE\EL\PORV\DN

PR\UL
Pressure Reducing Valve


30-PR\UL

Hydraulic pressure-reducing valve
The valve maintains a preset fixed downstream pressure, regardless of upstream pressure or flow fluctuations.

Pressure rating, adjustment range & features:
- UL Listed pressure rating/maximum upstream pressure (psi)
  Class 150 (ISO PN16) - 175-250psi
  Class 300 (ISO PN25) - 375psi
- UL listed downstream pressure adjustment range under VLMT EX.15232 & VLMT EX.xxxxx file (consult)
  Class 150 (ISO PN16) 30-165 psi
  Class 300 (ISO PN25) 30-165 psi
- **Combination Deluge Pressure reducing valves**
  Class 150 (ISO PN16) & Class 300 (ISO PN25) 50-300 psi
- Other / Optional Pressure adjustment range: 15-360 psi
- Reliable pressure control from near zero flow to full flow with no need for additional throttling plug or by-pass valves
- Exhibits the same low pressure losses as in the basic valve
- Simple structure

Applicable for:
- Water, Sea water and Foam

PS\UL
Pressure Relief Valve


30-PS\UL

Hydraulic pressure relief valve
The valve maintains a steady preset upstream pressure. Should the upstream pressure exceed the required set point, the valve opens, releasing excessive pressure. When the pressure falls below the preset level, the valve closes drip tight.

Pressure rating, adjustment range & features:
- UL listed pressure rating/maximum pressure (psi)
  Class 150 (ISO PN16) - 250 psi max.
  Class 300 (ISO PN25) - 375 psi max
- UL listed pressure relief ranges under QXZQ.EX15231 & QXZQ.EXxxxxx file (consult)
- UL listed maximum relief pressure (psi):
  Class 150 (ISO PN16) - 175 psi & 205 psi
  Class 300 (ISO PN25) - 375 psi
- Reliable pressure control from near zero flow to full flow with no need for additional throttling plug or by-pass valves
- Exhibits the same low pressure losses as in the basic valve
- Simple structure

Applicable for:
- Water, Sea water and Foam


77-PS\UL

Model 108FC (Globe)/108FCA (Angle) METRIC
Fire Pump Relief Valve



The Model 108FC automatically relieves excess fire pump discharge pressure, to prevent the pressure from exceeding the rating of the fire system components.

Features:
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable: 4.1 - 12.4 bar or 6.9 - 20.7 bar
- Pilot-operated main valve
- Pressure setting is adjustable with single screw
- Factory tested and pre-set to your requirements
- UL Listed & Factory Mutual Approved for both split-case centrifugal
- and vertical turbine pumps
- Sizes 3" (DN80) - 8" (DN200), globe and angle pattern
- ANSI Flanged Class 150, Class 300, and 300 inlet x 150 outlet
- Wide range Model 108FCA of materials available

Model 108FPS METRIC
Pump Suction Control Valve



The Model 108FPS is used to prevent the fire pump from outdrawing the available supply. In so doing, it protects the pump suction supply from damage associated with too low a pressure and assures adequate supply pressure to the fire system components.

Features:
- Maintains minimum pump suction pressure
- Installs on fire pump discharge; senses pump suction
- Suction pressure is adjustable with single screw
- Adjustable .34 - 2.0 bar range
- Sizes 3" (DN80) - 8" (DN200), globe and angle
- Pilot-operated main valve
- Maintain without removal from the line
- Adjustable opening speed
- Factory tested and can be pre-set to your requirements
- Factory Pump Suction Control Valve Mutual Approved

Model 108-2HP(Globe)/108-2HPA(Angle) METRIC
Fire Pump Relief Valve



The Model 108-2HP automatically relieves excess fire pump discharge pressure to prevent the pressure from exceeding the rating of the fire system components.
It is specifically designed for those systems where the relief set point must be higher than the pressures allowed for UL-listed/FM-approved valves.

Features:
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable 13.7 bar - 51.0 bar
- Pilot-operated main valve
- Pressure setting is adjustable with single screw
- Factory tested and pre-set to your requirements
- Sizes 3" (DN80) - 8" (DN200), globe and angle pattern
- ANSI Flanged Class 300, and 300 inlet x 150 outlet
- Wide range Model 108-2HPA of materials available

Model 1330Fc Pressure Relief Valve / N.c.
Thermal Expansion Relief Valve 1330Fc



The Model 1330FC is a pressure relief valve that is installed downstream of a pressure reducing valve and is located in the distribution piping in a fire protection system. If the pressure in the distribution piping should become over pressurized, the 1330FC will open and relieve the excess pressure, preventing damage.

Features:
- UL Listed, Control Number 39TZ
- Normally closed, increasing inlet pressure opens valve
- UL Listed spring 20-175 psi
- Local sense line (self contained sense loop)
- Simple adjustment
- All parts replaceable while valve is installed
- Rubber to metal seat for positive shut-off
- Can be installed vertically or horizontally

MO\M
Manually Actuated Monitor Valve

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions.

Features:
- Effortless open/close actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


77-MO-M

MO\RC
Remote Hydraulic/Pneumatic Actuated Monitor Valve

A 3-way relay valve, actuated by hydraulic or pneumatic pressure command, which opens or closes the main valve. The standard valve is supplied in the "normally closed" position. The "normally open" position is optional.

Features:
- Fast response, even for long control lines
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


77-MO-RC

MO\EL
Electrically Actuated Monitor Valve

The valve is electrically actuated by a 3-way solenoid valve which remotely opens and closes the valve.

Features:
- Low power electric actuation
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves

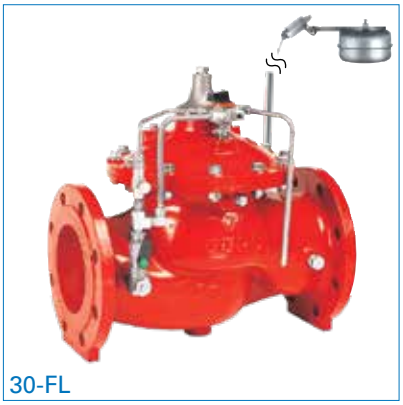

77-MO-EL

Water Level Control Valves

FL
Modulating Float Control Valve

The main valve is controlled by a float assembly, located in the tank or reservoir and set to the required maximum water level. The valve constantly maintains the maximum level.

Features:
- Accurate level control
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


30-FL


68-FL

FLEL
Electric Float Control Valve

The main valve is actuated by a 3-way solenoid to an electric sensor float, located in the tank/reservoir.
The sensor provides open and close commands to the solenoid valve. The main valve fully opens and closes drip tight upon command, when the solenoid is de-energized, thus enabling accurate and reliable differential level control.
Optional Addition: dynamic surge-preventing closing.

Features:
- Accurate differential level control
- Low power electric actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


30-FLEL

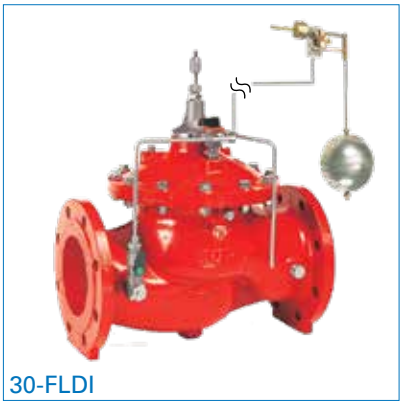

68-FLEL

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FLDI
Differential Float Pilot Control Valve

The main valve is controlled by a float assembly, closing it when the water reaches maximum level, and opening it when the water drops to its preset minimum level. The differential between the maximum and the minimum levels is adjustable.
Optional addition: dynamic, surge preventing shutoff.

Features:
- Accurate differential level control
- Adjustable differential
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


30-FLDI


68-FLDI

AL
Altitude Pilot Control Valve

The main valve is actuated by a highly sensitive altitude pilot, located outside the tank. The pilot opens or closes the valve in response to the static pressure of the water. The pilot allows for differential adjustments between the maximum and minimum level.
Optional addition: dynamic, surge preventing shutoff.

Features:
- Accurate differential level control
- Fast response
- Easy access - no float is located in the tank\reservoir
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves


30-AL


68-AL

Deluge Pressure Reducing Valve Range

DE\HRV\PR

Hydraulically actuated anti-columning Deluge Pressure Reducing Valve


30U-DE\HRV\PR

Hydraulically activated, Pilot-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized sensor line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Optional manual reset (model DE\HRV(MR)\PR)

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

DE\EL\HRV\PR

Electrically or Hydraulically actuated Deluge Pressure Reducing Valve


30U-DE\EL\HRV\PR

Electrically or Hydraulically, Pilot-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized sensor line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Remote reset - optional manual reset (model DE\EL\HRV(MR)\PR)

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

Edition 03/2019

DE\EL\PR

Electrically actuated Deluge Pressure Reducing Valve 2/2 solenoid

Electrically-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid-valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip-tight when the solenoid-valve is de-energized. An emergency manual release valve is fitted as standard.



30U-DE\EL\PR

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Remote reset

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

DE\RC\PR

Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid

Electrically-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid-valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip-tight when the solenoid-valve is de-energized. An emergency manual release valve is fitted as standard.



30U-DE\RC\PR

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Remote reset - optional manual reset (model DE\RCL\PR)

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

DE\RCL\PR

Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid

Electrically-controlled Deluge/Pre-Action Pressure Reducing, Manual Reset valve, actuated by the pipeline pressure.
The valve is closed in its normal, set position and opens when a 3w solenoid-valve is energized. The valve must be manually reset following automatic activation using the RCL relay's knob. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.


30U-DE\RCL\PR

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Manual reset

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

DE\PORV\PR

Pneumatically actuated Deluge Pressure Reducing Valve

Pneumatically-Activated, Pilot-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure.
The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized sensor line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.


30U-DE\PORV\PR

Features:
- UL listed
- Simple structure
- Easy installation and maintenance
- Remote reset - optional manual reset (model DE\PORV(MR)\PR)

Applicable for:
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

DE\EL\PORV\PR

Electrically or Pneumatically actuated Deluge Pressure Reducing Valve

Electrically or Pneumatically, Pilot-controlled Deluge/Pre-Action Pressure Reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized sensor line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.



30U-DE\EL\PORV\PR

Features:

- UL listed
- Simple structure
- Easy installation and maintenance
- Remote reset - optional manual reset (model DE\EL\PORV(MR)\PR)

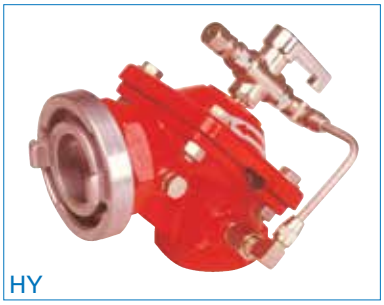
Applicable for:

- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

HY

Hydraulic Hydrant Valve

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Opening and closing speed are controlled by an in-line orifice.



HY

HY\PR1

Hydraulic Pressure-Reducing Hydrant Valve

The valve is manually actuated, allowing the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Opening and closing rates are regulated by in-line orifices and pressure is limited to a preset level.



HY\PR1

HY\PR2

Hydraulic Pressure-Reducing Hydrant Valve

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Downstream pressure is dynamically determined using an adjustable set point pilot valve.



HY\PR2

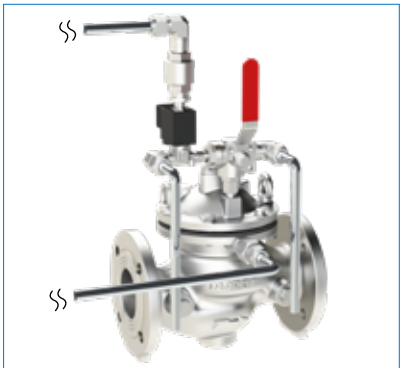
Features:

- Effortless open/close actuation
- Controlled response
- Simple and reliable design
- Easy installation and maintenance

Zero Pressure Foam Valve Range

ZP\EL

Zero Pressure Foam Concentrate Electrically actuated Double chamber Slave Control Valve



30U-ZP\EL

The valve is installed downstream of the foam concentrate tank and is closed in its normal set position by the master's main line pressure. When the valve´s 3/2 solenoid is actuated it allows the valve to be forced open by the upstream pressure of its master's valve water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:

- Electrically select either water only or foam operation through the system
- Full St. St. construction
- Double chamber zero pressure operated by deluge water mains
- Electric remote actuation and remote reset, manual emergency actuation
- The application is based on UL listed Valves



Applicable for:

- Control of water & seawater, AFFF concentrate foam systems

ZP\HM

Hydraulic Pilot actuated Zero Pressure Foam Concentrate Double chamber Slave Control Valve



30U-ZP\HM

The valve is installed downstream of the foam concentrate tank and is closed in its normal set position by the master's main line pressure. The slave valve is forced open through the pilot valve by the upstream pressure of its master's valve water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:

- Full St. St. construction
- Double-chamber, zero-pressure, fail-safe operation by its master valve's water mains
- Electric remote actuation and remote reset including local manual emergency actuation
- The application is based on UL listed valves



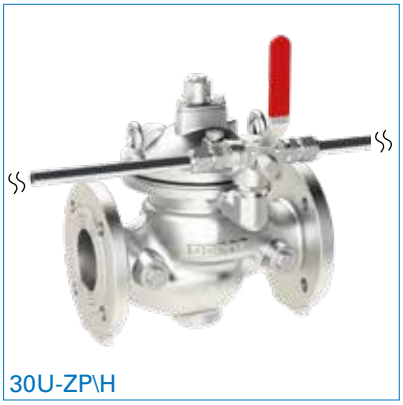
Applicable for:

- Control of water & seawater, AFFF concentrate foam systems

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ZP\H

Zero-Pressure, Foam-Concentrate, Over-the-Seat Hydraulic-Actuated, Double-Chamber, Hydraulic Slave Control Valve



30U-ZP\H

The valve is installed downstream of the foam concentrate holding tank and is closed in its normal, set position. The slave valve is forced open by its master valve's downstream pressure rise when it opens. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner downstream of the main master valve.

Features:

- Full St. St. construction
- Double-chamber, zero-pressure, fail-safe operation by its master valve's water mains
- Electric remote actuation and remote reset including local manual emergency actuation
- The application is based on UL listed valves



Applicable for:

- Control of water & seawater, AFFF concentrate foam systems

Edition 03/2019

Pictures of projects





















Innovation

Expertise

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