

OCV FLUID
SOLUTIONS^{LLC}



matholding group

Fire Protection

**Innovative & Reliable Solutions
Together!**

Fire Protection Control Valves



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 ABSType Approved.

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



Series 300 Basic Hydraulic Valves	4
Series 100 Basic Hydraulic Valves	6
Deluge Valve Range	8
DEHM Hydraulically Actuated Deluge Valve	8
DEHRV Hydraulically Actuated, Anti-Cumming Deluge Valve	8
DEVL Electrically Actuated Remote Reset Deluge Valve 2/2 solenoid	9
DEVC Electrically Actuated Deluge Valve 3/2 solenoid	10
DEVRCL Electrically Actuated Manual Reset Deluge Valve	10
DEVRCE Electrically Actuated Manual Reset & Electric Remote Reset Deluge Valve	11
DEVEL(CN) Electrically Actuated Deluge Valve (Chinese standard)	11
DEVELHRV Electro-Hydraulically Actuated, Anti-Cumming Deluge Valve	12
DEVPORV Pneumatically Actuated Deluge Valve	12
DEVELPORV Electro-Pneumatically Actuated Deluge Valve	13
DEVELPORVDN Double-Interlock Pre-action, Electric-Pneumatic Release System	13
Pressure Reducing & Pressure Relief Valves	14
PRUL Pressure Reducing Valve	14
PSUL 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
MOM Manually Actuated Monitor Valve	17
MORC Remote Hydraulic/Pneumatic Actuated Monitor Valve	17
MOEL 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
DEHRVPR Hydraulically actuated anti-cumming Deluge Pressure Reducing Valve	20
DEVELHRVPR Electrically or Hydraulically actuated Deluge Pressure Reducing Valve	20
DEVELPR Electrically actuated Deluge Pressure Reducing Valve 2/2 solenoid	21
DEVCPR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid	21
DEVRCLPR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid	22
DEVPORVPR Pneumatically actuated Deluge Pressure Reducing Valve	22
DEVELPORVPR Electrically or Pneumatically actuated Deluge Pressure Reducing Valve	23
Hydrant Valve Range	23
HY Hydraulic Hydrant Valve	23
HYPR1 Hydraulic Pressure-Reducing Hydrant Valve	23
HYPR2 Hydraulic Pressure-Reducing Hydrant Valve	23
Zero Pressure Foam Valve Range	24
ZPEL Foam Concentrate Electrically actuated Double chamber Control Valve	24
ZPHM Slaved Hydraulic Pilot actuated Foam Concentrate Double chamber Control Valve	24
ZPH Slaved Hydraulic actuated over the seat Foam Concentrate Double chamber Control Valve	25

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 accessories
- 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

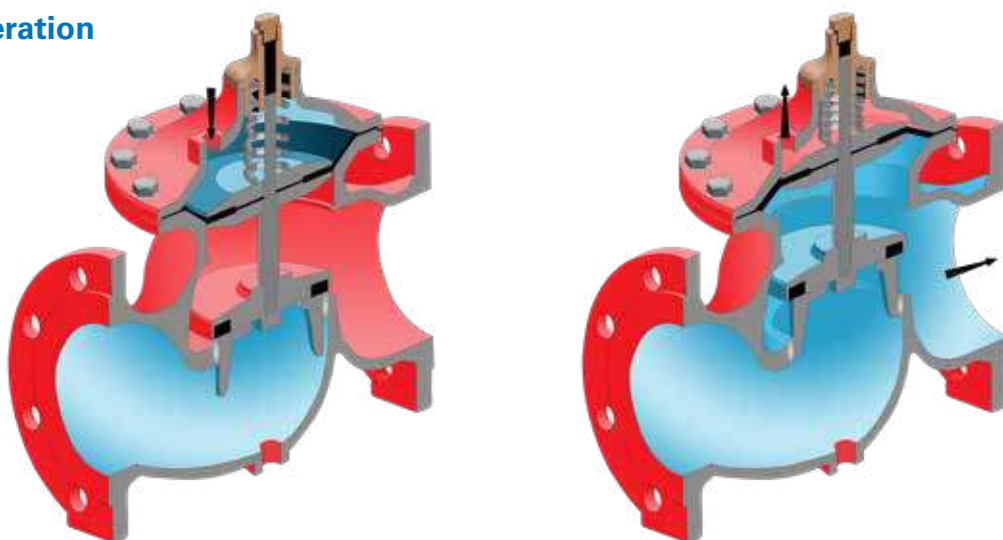
Elastomers: Rubber, NR, NBR, EPDM, BUNA-N

Control trim & Accessories:

Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request

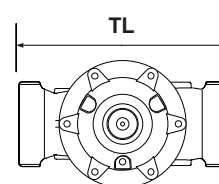
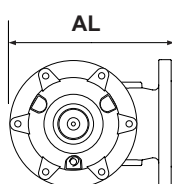
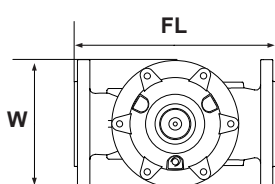
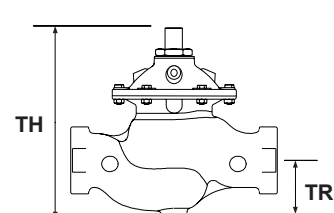
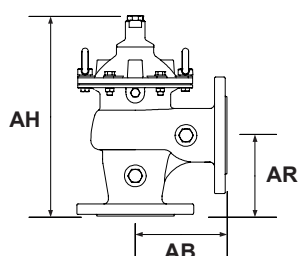
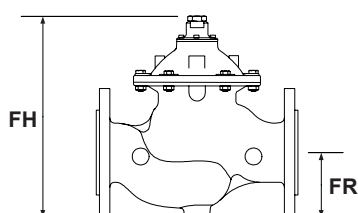
Principle of Operation



Dimensions and Weights

Valve Size		50 (2")		65 (2½")		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 5/8	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



General Description

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

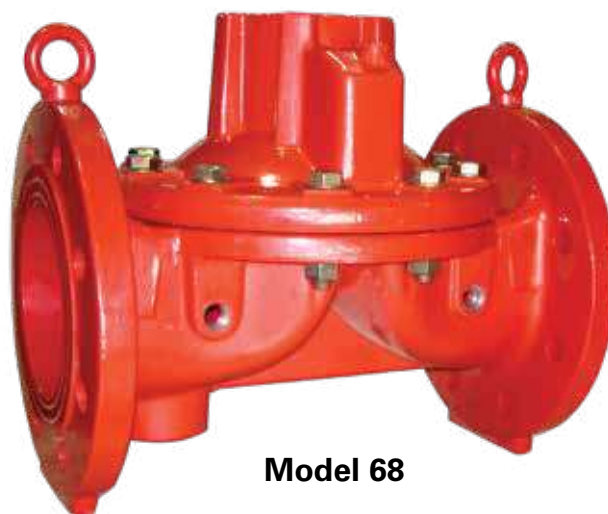
Dorot Series 100 valves are automatic, hydraulically actuated, direct diaphragm sealing weir / globe type valves with proven and reliable design.

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 accessories
- 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

ASTables 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

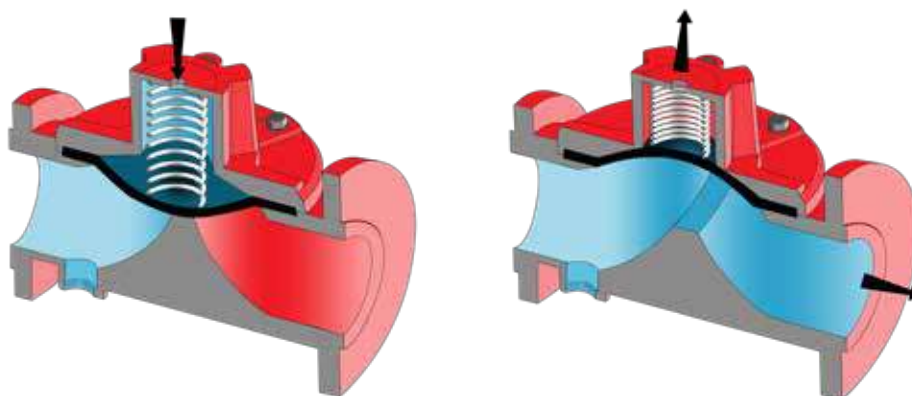
Elastomers: Rubber, NR, NBR, EPDM, BUNA-N

Control trim & Accessories:

Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request

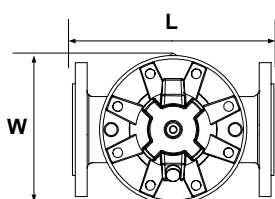
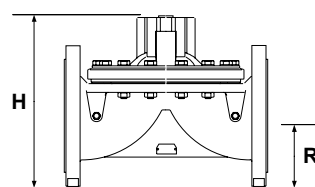
Principle of Operation



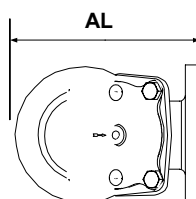
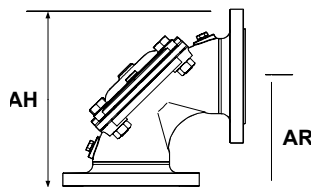
Dimensions and Weights

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 ⁵ / 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 ⁹ / 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 ⁹ / 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 ³ / 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	

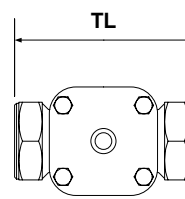
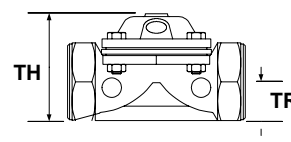
* Valve Width



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-Columnning 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

DEVEL 

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

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

DEVCE 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-DEVCE



68-DEVCE

DEVEL(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-DEVEL (CN)



68-DEVEL (CN)

DEVELHRV
**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 DEVELHRV-MR)
- Optional pressure reducing function

Applicable for:

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



30U-DEVELHRV



68-DEVELHRV

DEPORV
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 DEPORV-MR)
- Optional pressure reducing function

Applicable for:

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



30U-DEPORV



68-DEPORV

DEVELPORV



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 DEVELPORV-MR)
- Optional pressure reducing function

Applicable for:

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



30U-DEVELPORV



68-DEVELPORV

DEVELPORVDN



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 DEVELPORVDN-MR)
- Optional pressure reducing function

Applicable for:

- Double-Interlock Pre-Action
- Water, Sea water and Foam



30U-DEVELPORVDN



68-DEVELPORVDN

PR\UL



Pressure Reducing Valve

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



30-PR\UL

PS\UL



Pressure Relief Valve

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



30-PS\UL



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



MOW

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

MORC

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

MOEL

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

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

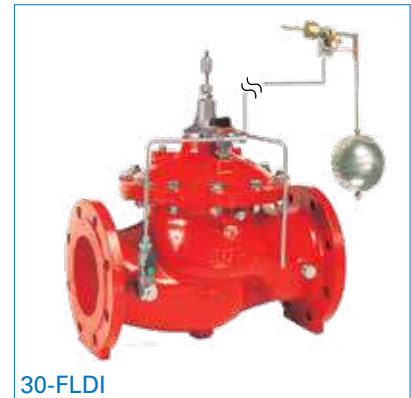
FLDI

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

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



30U-DE\HRV\PR

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

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



30U-DE\EL\HRV\PR

DEVELPR



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.

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



30U-DE\EL\PR

DERCPR



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.

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



30U-DE\RCP\PR

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.

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



30U-DE\RCL\PR

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.

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



30U-DE\PORV\PR

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.

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



30U-DE\EL\PORV\PR

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.

HYPR1

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.

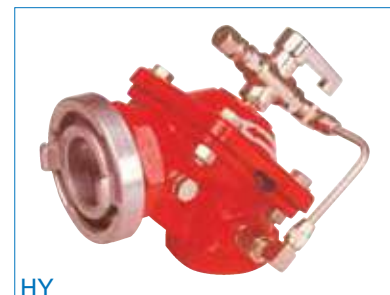
HYPR2

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.

Features:

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



HY



HY\PR1



HY\PR2

ZP\EL**Zero Pressure Foam Concentrate Electrically actuated Double chamber Slave Control Valve**

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



30U-ZP\EL

**ZP\HM****Hydraulic Pilot actuated Zero Pressure Foam Concentrate Double chamber Slave Control Valve**

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:

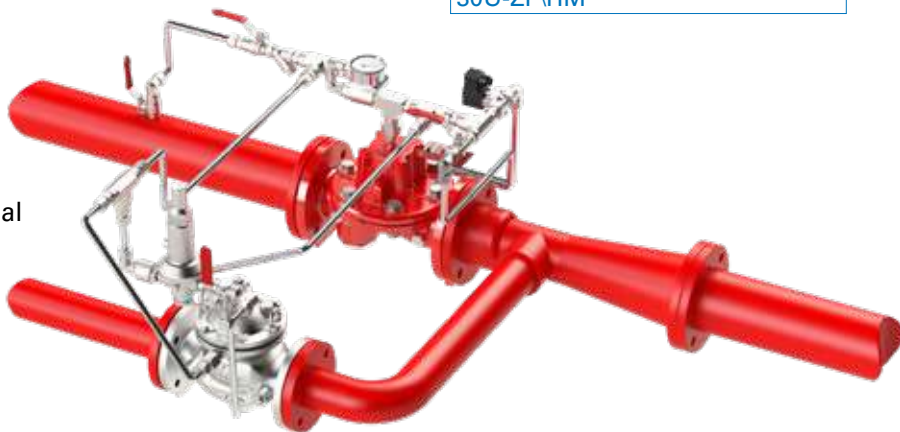
- Full St. St. construction
- Double-chamber, zero-pressure, fail-safe operation by its master valve's water mains
- Electric remote actuation and remote reset including local manual emergency actuation
- The application is based on UL listed valves

Applicable for:

- Control of water & seawater, AFFF concentrate foam systems



30U-ZP\HM



ZPVH

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

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



30U-ZPVH









Innovation

Innovation

Expertise

Expertise

Reliability

Reliability



OCV Fluid Solutions aims to be the leading provider of fluid solutions for Fire Protection products. We take upon ourselves the responsibility of leading the market worldwide, to address all our partner's needs. We place our knowledge, state of the art engineering and infrastructure at the service of our partners and together, we engage in sustainable practices for preserving earth's resources and building a sustainable environment for future generations. Customer satisfaction and recognition are important for us. This guarantees uncompromised know-how, expertise and professionalism in planning, designing and providing the optimal fluid control solutions for various applications, ranging from basic systems to most hazardous applications in Fire Protection.

www.controlvalves.com
www.dorot.com

Via Carlo Dell'Acqua, 7 • 20027 Rescaldina MI ITALIA
 fp@dorot.com • www.dorot.com • C.F./P.I. 02211910027



matholding group